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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,156	03/08/2007	Domenico Romiti	9526-91	2908
30448 7550 04/30/2008 AKERMAN SENTERFITT			EXAMINER	
P.O. BOX 3188			LEO, LEONARD R	
WEST PALM BEACH, FL 33402-3188		38	ART UNIT	PAPER NUMBER
			3744	
			MAIL DATE	DELIVERY MODE
			04/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. 10/596,156 ROMITI, DOMENICO Office Action Summary Examiner Art Unit Leonard R. Leo 3744

Applicant(s)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 11 13(3). In no event, however, may a reply be timely filed after 58 (t) (b) MCVITE from the making date of this communication. The communication of the communicatio
Status
Responsive to communication(s) filed on
2a) This action is FINAL . 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) Claim(s) 1-12 is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>1-12</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:
 Certified copies of the priority documents have been received.
Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/S5/06)

Paper No(s)/Mail Date 6/06

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5) Notice of Informal Patent Application 6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A petent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gandolfi et al in view of Nagano.

Gandolfi et al (page 18, first paragraph) discloses the tubes are composed of titanium, but does not disclose a zirconium coated tube.

Nagano discloses a protective coating for titanium comprising zirconium for the purpose of preventing corrosion.

Since Gandolfi et al and Nagano are both from the same field of endeavor and/or analogous art, the purpose disclosed by Nagano would have been recognized in the pertinent art of Gandolfi et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Gandolfi et al a zirconium coating on the titanium tubes for the purpose of preventing corrosion as recognized by Nagano.

Regarding claim 2, it would have been obvious to one of ordinary skill in the art to employ the zirconium coating on either the inside or outside of the titanium tube depending on which surface requires corrosion protection with respect to the intended working fluids. Application/Control Number: 10/596,156

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Regarding claim 3, the specific titanium tube and zirconium coating thicknesses are considered to be an obvious design choice, producing no new and/or unexpected results. One of ordinary skill in the art would employ any desired tube and coating thicknesses to achieve a desired heat exchange, pressure resistance, wear ability, etc.

Regarding claims 4-6, Gandolfi et al (page 8, lines 4-22) discloses a portion of the tubes may be corrosion protected where the working or process fluid is at its maximum aggressiveness. One of ordinary skill in the art would employ any portion of the tube with the protective layer to achieve a desired amount of corrosion resistance.

Regarding claims 7-8, the recitations of "bonded together metallurgically or through welding" and "bonded together through hot-drawing" are considered to be a method limitations in an apparatus claim, which bears no patentable weight in this instance. See MPEP 2113.

Regarding claims 9-10, Gandolfi et al (Figure 3, page 24, lines 2-6) discloses a carbon or stainless steel tube plate 22 with a titanium layer 23. The specific titanium layer thickness is considered to be an obvious design choice, producing no new and/or unexpected results. One of ordinary skill in the art would employ any desired layer thickness to achieve a desired corrosion resistance, wear ability, etc.

Regarding claims 11-12, the recitations of "for the decomposition of ammonium carbamate in an urea production plant" and "for the condensation of ammonia and carbon dioxide into ammonium carbamate in an urea production plant" are considered to be a statements of intended use, even if claimed, does not merit patentable weight unless the body of the claim refers back to, is defined by, or otherwise draws life and breadth from such intended use. Ex parte Masham, 2 USPQ2d 1647 (1987).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ LEONARD R. LEO / PRIMARY EXAMINER ART UNIT 3744

May 1, 2008